

Wilcox ICS/XRF Draft Results Summary Map Notes

Note: These are draft maps based on XRF instrument data that has been reviewed in accordance with the QAPP. The maps may be revised for the final Technical Memorandum.

Ethyl Blending Area (EBA) Maps

Values shown for 0-6 inch interval for DU-1, and DU-2 are UCLs¹ from triplicate samples at these locations.

The 0-24 inch value is based on a weighted average calculation of the 0-6 inch and 6-24 inch UCL values.

The 0-24 value for DU-10 reflects weighted average of the UCL of triplicate samples collected at this location.

Samples EBA SU 1 and EBA SU 2 are located in DU-5 and were interpreted during the field program to exceed the 200 mg/kg screening value for the 0-24 inch interval within the entire DU. The area is not highlighted red on the map because there was no 6-24 inch DU sample collected to confirm the elevated concentration.

Point Source Area 1 (PSA 1) represents a hotspot near the pipe manifold. XRF screening of the 0-24 inch interval from six cores in this area suggest the hot spot extends away from the building approximately 10 feet, and is approximately 8 feet wide (slightly wider than the manifold). A map will be provided in the Technical Memorandum.

Lead Sweetening Area (LSA) Maps

The white lines are the proposed transect locations.

The concentrations shown for SUs on the LSA maps are mean values from the XRF readings on a bagged field sample.

The concentrations shown for DUs DUT 4-5, and DUT 6-7, (0-6 inch interval) on the LSA maps are predicted UCL values from single bagged samples.

Values shown for LSA DUT 5-6 and LSA DUT 8-9 (0-6 inch interval) are UCLs from triplicate samples at these locations.

DU concentrations are shown for the four DUs sampled (DUT 4-5, DUT 5-6, DUT 6-7, and DUT 8-9) are for data presentation purpose only. We do not interpret these DUs to represent a confirmed 200 mg/kg boundary line.

The 0-24 inch value is based on a weighted average calculation of the 0-6 inch and 6-24 inch mean values.

Additional XRF screening data are available from 4-inch sample intervals collected from 0 to 24 inches near LSA DUT 9,2. These data will be presented in the Technical Memorandum.

¹ 95% Upper Concentration Limit of the bagged sample mean, calculated from multiple XRF instrument readings of the sample. Please refer to the Final QAPP for definitions and descriptions of the Decision Units (DUs) and Sampling Units (SUs).

Road Samples Maps

Real time data analysis and revision of the LSA CSM indicated that contamination on built roads may influence the results of the LSA lead delineation. The adaptive sampling approach was used to evaluate the contamination of roads and berms in and near the LSA and EBA. The following road samples were collected:

Road Segment Number	Location	Road Type
RST-1	North access road above Distillation Area 1	Built
RST-2	Main Access Road at entrance gate	Built
RST-3	North of EBA, from Main Access Road	Cut
RST-4	South of EBA, from Main Access Road	Cut
RST-5	South of Distillation Area 2	Cut
RST-6	Main Access Road, south end LSA turning towards Tanks 34, 35, 36	Built
RST-7	Main Access Road south end of LSA	Built
RST-8	Tank Berm between T-36 and T-35	Berm
RST-9	Tank Berm between T-37 and T-36	Berm

Notes: "Built roads" - constructed with a gravel road base; "Cut roads" - dirt roads made by cutting away brush and trees, "Berm roads" – dirt roads on former storage tank retention berms

The concentration presented on the map represents the mean value of XRF readings for surficial road material along the 100 foot segment shown.